(19) World Intellectual Property Organization

International Bureau



TIBLED KRIEDDI IN NORMA KORA BORA BORA KIRA KIRA KIRA BIRA DI KARA BIRA BARA KARA BIRA BARA BARA BARA BARA BAR

(43) International Publication Date 24 July 2003 (24.07.2003)

PCT

(10) International Publication Number WO 2003/059778 A3

(51) International Patent Classification⁷: 85/804

B65D 81/00,

(21) International Application Number:

PCT/EP2003/000384

(22) International Filing Date: 13 January 2003 (13.01.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 02000943.7

16 January 2002 (16.01.2002) EP

(71) Applicant (for all designated States except US): SOCIETE DES PRODUITS NESTLE S.A. [CH/CH]; P.O. Box 353, CH-1800 Vevey (CH).

(72) Inventors; and

(75) Inventors/Applicants (for US only): DENISART, Jean-Luc [CH/CH]; Le Vigny 2, CH-1096 Cully (CH). CAHEN, Antoine [CH/CH]; Les Ateliers du Nord, Place du Nord 2, CH-1005 Lausanne (CH). YOAKIM, Alfred [FR/CH]; Ch. de la Routiaz 2, CH-1806 St-Légier-La Chiesaz (CH).

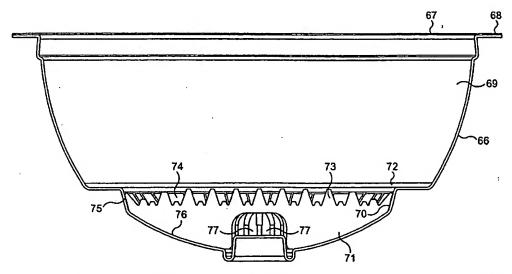
- (74) Agent: THOMAS, Alain; Avenue Mestlé 55, CH-1800 Vevey (CH).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK,

[Continued on next page]

(54) Title: CLOSED CAPSULE WITH OPENING MEAN



(57) Abstract: The present invention relates to a closed capsule designed to be extracted under pressure in an extraction device, containing a substance (69) for the preparation of a beverage, comprising a closed system (66, 67) containing the said substance (69) and a means (73) inside the said system allowing the said capsule to be opened at the time of its use and allowing the said beverage to flow out without contact with its extraction system.

0003/050778 A3 |||

MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, Cl, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent

(GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

Published:

- with international search report
- (88) Date of publication of the international search report: 8 January 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERMATIONAL SEAUCH DEFORT

Internati iplication No PCT/EP 03/00384

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B65D81/00 B65D85/804

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) $IPC\ 7\ B65D\ A47J$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to daim No.
X,P	WO 02 081337 A (MAJER DOGLIONI LUCA; TUTTOESPRESSO S P A (IT)) 17 October 2002 (2002-10-17) page 7, line 15 -page 10, line 3; figures 4-10	1-3,5,6, 8,21-24, 26-29
X	GB 1 256 247 A (KANTOR INTERNATIONAL) 8 December 1971 (1971-12-08) cited in the application page 1, line 53 -page 2, line 48; figures 1-7	1,21-24, 26,27
	-/	

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents: A' document defining the general state of the art which is not considered to be of particular relevance E' earrier document but published on or after the International filling date L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another clatton or other special reason (as specified) O' document referring to an oral disclosure, use, exhibition or other means P' document published prior to the international filing date but later than the priority date claimed	 "T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
22 May 2003	25/07/2003
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tet. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Berrington, N

IN I CHINA I IUNAL SEADUR REFUN

Interna upplication No PCT/EP 03/00384

		PCT/EP 03/00384		
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT			
Category •	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.	
X	US 5 259 295 A (TIMM EBERHARD) 9 November 1993 (1993-11-09)		1-6, 8-13,15, 21-24, 26-29	
	column 3, line 28 - line 50 column 4, line 9 - line 32; figures 1-3,7,9,10			
(DE 23 27 264 A (BEDNARTZ HUGO) 2 January 1975 (1975-01-02) page 11, line 3 -page 12, line 7; figures 6-7A		1,26	
(US 4 077 551 A (MANARESI ADRIANA) 7 March 1978 (1978-03-07) column 2, line 46 -column 3, line 36; figures 4,5	1-3, 26-29		
(FR 2 620 921 A (FAFOURNOUX BERNARD)		1	
1	31 March 1989 (1989-03-31) page 4, line 11 -page 5, line 23; figures 3,4		4	
(EP 0 451 980 A (GEN FOODS KRAFT LTD) 16 October 1991 (1991-10-16) column 9, line 13 - line 52; figures 5A,5B		1	
			• .	
	-			
	·			
	·			
			:	
			<u> </u>	

INTERNATIONAL SEARCH REPORT

al application No.

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.
2. X As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210							
This International Searching Authority found multiple (grainventions in this international application, as follows:	oups of)						
	·						
	-						
	·						
χ.	·						
	*						

INTERNATIONAL SEARCH REPORT

on on patent family members

PCT/EP 03/00384

					!			
	itent document I in search report		Publication date		Patent family member(s)		Publication date	
WO	02081337	A	17-10-2002	IT WO	MI20010741 02081337		07-10-2002 17-10-2002	
GB	1256247	Α	08-12-1971	AT	283183		27-07-1970	
				BE	740896		01-04-1970	
		•		CH DE	515155 1954209		15-11 - 1971 27-05-1970	
				ES	153070		16-10-1970	
	•			FR	2022482		31-07-1970	
				ΙĒ	33402		12-06-1974	
				LU	57420	A1	04-03-1969	
				MT	598		11-09-1971	
				NL	6916281		06-05-1970	
				0A	3156	A 	15-12-1970	
US	5259295	Α	09-11-1993	DE	9013838	U1	06-02-1992	
				ΑT	119368		15-03-1995	
				DE	59104862		13-04-1995	
				DK	479111		24-07-1995	
				EP ES	0479111 2071182		08-04-1992 16-06-1995	
				HK	157995		13-10-1995	
				JP	4364818		17-12-1992	
				SU	1837834		30-08-1993	
				US	5287796		22-02-1994	
DE	2327264	Α	02-01-1975	DE	2327264	A1.	02-01-1975	
US	4077551	Α	07-03-1978	NONE				
FR	2620921	Α	31-03-1989	FR	2620921	A1 ·	31-03-1989	
EP	0451980	Α	16-10-1991	AT	111856	7 .	15-10-1994	
				CA	2039243		01-10-1991	
		•		DE	69104106		27-10-1994	
				DE	69104106		19-01-1995	
				DK Ep	451980 0451980		20-02-1995 16-10-1991	•
		•	•	ES .	2060297		16-10-1991	
				HK	146494		30-12-1994	
				JP	2690207		10-12-1997	
	•			JP KR	5097166 170775		20-04-1993 30-03-1999	